

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	catsper\$	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L2	38997	sperm or spermatozoa or spermatozoan or spermatogenesis or gamete	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L3	1785536	channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L4	996414	ion	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L5	269949	cation or (positive adj ion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L6	119	L2 same L3 same (L4 or L5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L7	1	wo-200061624-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:10
L8	1	wo-200190304-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:10
L9	8867	ren.in. or clapham.in. or garbers.in. or quill.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:11
L10	88	l9 and l2	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:12

d his

(FILE 'HOME' ENTERED AT 15:13:17 ON 07 MAR 2007)

FILE 'MEDLINE, AGRICOLA, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT
15:13:30 ON 07 MAR 2007

E REN D/AU
L1 811 E3
E REN DEJIAN/AU
L2 38 E3
E CLAPHAM D E/AU
L3 959 E3 OR E5 OR E6 OR E7
E GARBERS D L/AU
L4 1208 E3 OR E5 OR E6 OR E7
E QUILL T A/AU
L5 63 E3 OR E11 OR E12
L6 3000 L1 OR L2 OR L3 OR L4 OR L5
L7 129 CATSPER?
L8 46 DUP REM L7 (83 DUPLICATES REMOVED)
L9 379653 SPERM OR SPERMATOZOA OR SPERMATOZOAN OR SPERMATOGENESIS OR GAME
L10 576 L6 AND L9
L11 3656172 (ION OR CATION OR (POSITIVE(W)ION))
L12 1605315 CHANNEL OR PORE
L13 243826 L11 (S)L12
L14 50 L10 AND L13
L15 17 DUP REM L14 (33 DUPLICATES REMOVED)
L16 1308 L13 AND L9
L17 1014 L13 (P) L9
L18 1837010 MOTIL? OR FUSION OR FERTIL?
L19 799 L16 AND L18
L20 563 L13 (P) L9 (P) L18
L21 185 DUP REM L20 (378 DUPLICATES REMOVED)
L22 13 L21 AND TRANSMEMBRANE

=>

<!--StartFragment-->RESULT 3

US-10-828-975-2

; Sequence 2, Application US/10828975

; Publication No. US20050142566A1

; GENERAL INFORMATION:

; APPLICANT: REN, DEJIAN

; APPLICANT: CLAPHAM, DAVID E.

; APPLICANT: GARBERS, DAVID L.

; APPLICANT: QUILL, TIMOTHY A.

; TITLE OF INVENTION: SPERM-SPECIFIC CATION CHANNEL, CATSPER2, AND USES

; TITLE OF INVENTION: THEREFOR

; FILE REFERENCE: 110313.136US2

; CURRENT APPLICATION NUMBER: US/10/828,975

; CURRENT FILING DATE: 2004-04-21

; PRIOR APPLICATION NUMBER: PCT/US02/33676

; PRIOR FILING DATE: 2002-10-22

; PRIOR APPLICATION NUMBER: 60/345,324

; PRIOR FILING DATE: 2001-10-22

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn Ver. 3.3

; SEQ ID NO 2

; LENGTH: 528

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-828-975-2

Query Match 94.8%; Score 1984; DB 5; Length 528;

Best Local Similarity 98.0%; Pred. No. 1.7e-171;

Matches 397; Conservative 1; Mismatches 3; Indels 4; Gaps 1;

Qy **Seq ID #1** 1 MAAYQQEEQMQQLPRADAIRSRLIDTFSLEIHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60
 |||
 Db " **#2** 1 MAAYQQEEQMQQLPRADAIRSRLIDTFSLEIHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60

Qy 61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120
 |||
 Db 61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120

Qy 121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLSNFSVFWKSAWNVF 180
 |||
 Db 121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLSNFSVFWKSAWNVF 180

Qy 181 DFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQIQIIILVLRALKS 240
 |||
 Db 181 DFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQIQIIILVLRALKS 240

Qy 241 MTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300
 |||
 Db 241 MTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300

Qy 301 ALLQDVWKVPEVSRIFSSIIYFILWLLLSGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360
 |||
 Db 301 ALLQDVWKVPEVSRIFSSIIYFILWLLLSGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360

Qy 361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKS 405
 ||| :|
 Db 361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDR----GASQQRES 401

<!--EndFragment-->

```

<!--StartFragment-->RESULT 12
AAB52176
ID  AAB52176 standard; protein; 243 AA.
XX
AC  AAB52176;
XX
DT  22-FEB-2001 (first entry)
XX
DE  Human secreted protein BLAST search protein SEQ ID NO: 132.
XX
KW  Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW  antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW  vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW  cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW  neurological disease; infection; human; secreted protein.
XX
OS  Homo sapiens.
XX
PN  WO200061624-A1.
XX
PD  19-OCT-2000.
XX
PF  06-APR-2000; 2000WO-US008980.
XX
PR  09-APR-1999; 99US-0128700P.
PR  20-JAN-2000; 2000US-0176930P.
XX
PA  (HUMA-) HUMAN GENOME SCI INC.
XX
PI  Rosen CA, Ruben SM, Komatsoulis G;
XX
DR  WPI; 2000-656324/63.
XX
PT  New nucleic acid molecules encoding human secreted proteins, used in
PT  preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT  Parkinson's diseases and cancers.
XX
PS  Disclosure; Page 469-470; 478pp; English.
XX
CC  The invention relates to the isolation of genes AAC96900-C96947 encoding
CC  the human secreted proteins AAB52104-B52150. This sequence was used as a
CC  query sequence for BLASTX searches. The genes and proteins are useful for
CC  preventing, ameliorating or treating medical conditions, e.g. by protein
CC  or gene therapy. The genes are isolated from a range of human tissues
CC  disclosed in the specification. The nucleic acids, proteins, antibodies
CC  and (ant)agonists are useful in the diagnosis, treatment and prevention
CC  of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the
CC  adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
CC  lung, or urogenital; (b) immune disorders e.g. Addison's disease,
CC  allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
CC  diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
CC  arthritis and ulcerative colitis; (c) cardiovascular disorders such as
CC  myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.
CC  cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
CC  bacterial, fungal and parasitic infections
XX
SQ  Sequence 243 AA;

Query Match          46.0%; Score 1221; DB 3; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.7e-104;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Seq ID#2

Qy	108	PLFKNFIIFLVFLNTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLS	167
Db	1	PLFKNFIIFLVFLNTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLS	60
Qy	168	NFSVFWKSAWNVDFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQI	227
Db	61	NFSVFWKSAWNVDFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQI	120
Qy	228	QIIILVLVRALKSMTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNLS	287
Db	121	QIIILVLVRALKSMTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNLS	180
Qy	288	VTVFILFTLDHWYALLQDVWKVPEVSRIFSSIIYFILWLLLGSIIFRSIIIVAMMVTFNQNI	347
Db	181	VTVFILFTLDHWYALLQDVWKVPEVSRIFSSIIYFILWLLLGSIIFRSIIIVAMMVTFNQNI	240
Qy	348	RKE	350
Db	241	RKE	243

```
<!--EndFragment-->
```

<!--StartFragment-->RESULT 3

ABB89967

ID ABB89967 standard; protein; 414 AA.

XX

AC ABB89967;

XX

DT 24-MAY-2002 (first entry)

XX

DE Human polypeptide SEQ ID NO 2343.

XX

KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
 KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
 KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; human; secreted protein.

XX

OS Homo sapiens.

XX

PN WO200190304-A2.

XX

PD 29-NOV-2001.

XX

PF 18-MAY-2001; 2001WO-US016450.

XX

PR 19-MAY-2000; 2000US-0205515P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Birse CE, Rosen CA;

XX

DR WPI; 2002-122018/16.

DR N-PSDB; ABL90376.

XX

PT Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
 PT prevention of neural, immune system, muscular, reproductive,
 PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
 PT disorders.

XX

PS Claim 11; SEQ ID NO 2343; 2081pp + Sequence Listing; English.

XX

CC The invention relates to novel genes (ABL89449-ABL90853) and proteins
 CC (ABB89040-ABB90444) useful for preventing, treating or ameliorating
 CC medical conditions e.g. by protein or gene therapy. The genes are
 CC isolated from a range of human tissues disclosed in the specification.
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
 CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
 CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
 CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
 CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
 CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
 CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
 CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
 CC infectious diseases such as viral, bacterial, fungal and parasitic
 CC infections. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX

SQ Sequence 414 AA;

Query Match 99.8%; Score 2087; DB 5; Length 414;

Best Local Similarity 99.8%; Pred. No. 1.4e-205;

Matches 413; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy      1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60
      |||
Db      1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60

Qy     61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120
      |||
Db     61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120

Qy    121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180
      |||
Db    121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180

Qy    181 DFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQIQIIILVLRALKS 240
      |||
Db    181 DFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQIQIIILVLRALKS 240

Qy    241 MTFLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNSLVTVFILFTLDHWY 300
      |||
Db    241 MTFLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNSLVTVFILFTLDHWY 300

Qy    301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360
      |||
Db    301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360

Qy    361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKSARANGNGSG 414
      |||
Db    361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKSARANGNGSG 414
```

<!--EndFragment-->